

AMENDMENTS TO THE CLAIMS:

Please amend claims 1, 33, 35, 37, 44, 46, 48, 54, 59, 62, and 132-133, and add new claims 139-142 as indicated in the following listing of claims, which replaces all prior versions and listings of claims in the application:

Listing of Claims:

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1. (Currently Amended) A computer system comprising:
 - a first database containing records corresponding to a plurality of chemical compounds and records corresponding to biological information related to effects of such chemical compounds on biological systems;
 - a second database containing records corresponding to a plurality of molecular targets;
 - a third database containing records corresponding to screening results from tests of interactions between each of a plurality of compounds in the first database and each of a plurality of molecular targets in the second database, the tests including information on the effect that a compound selected from the plurality of compounds first database has on the interaction of a between a reference compound known to interact with a selected molecular target from the plurality of molecular targets second database and said selected molecular target; and
 - a user interface allowing a user to view the selected compound and to selectively view information from the first database, the second database, and the third database as it relates to a compound record in the first database or as it relates to a molecular target in the second database.